

Integrated Automatic Standpipe Kit (BFA* Kit)








THE CASHLESS DRINKING WATER MANAGEMENT SOLUTION, AVAILABLE 24/7, COMPETITIVE AND COMPATIBLE WITH STANDARDS IN SEMI-URBAN AND RURAL AREAS IN AFRICA

15 years' experience in Africa

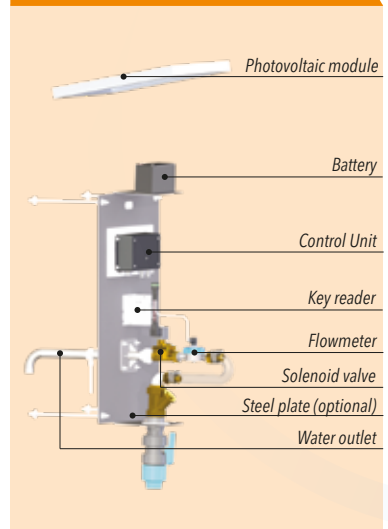
This autonomous automatic standpipe offers uninterrupted community water point management.



The BFA kit integrated into an existing construction, without the VERGNET HYDRO plate

-  The user simply enters their RFID key to draw water. The water cuts off when the key is removed.
-  With its solar panel, the BFA kit is entirely autonomous. No radio or telecommunications link is required.
-  Except for the solar panel, all components of this BFA kit are fixed onto a steel plate protected with an anti-corrosion coating. The system is therefore highly resistant to external hazards such as weather conditions and repeated use.
-  Credit on the key can be reloaded using an electronic payment terminal secured with data encryption.
-  All the components are designed for quick and easy maintenance.
-  The BFA kit operates when water pressure is at least 0.2 bars.
-  A stand-alone version is available. This does not require an existing construction.

MAIN COMPONENTS



Integrated BFA kit with the VERGET HYDRO set-up (optional)



Electronic payment terminal



Wireless communication (offline) from any smartphone to configure the automatic system and read the operating data



Key containing an RFID chip

* Borne-Fontaine Automatique = Automatic Standpipe, in French.

EASY TO INSTALL • EASY TO USE • EASY TO MAINTAIN

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TECHNICAL SPECIFICATIONS

CONTROL UNIT

Includes a clock backed up using a lithium battery (10-year operating life).

Alphanumerical LCD display: time and date, meter index, key identification, credit remaining on the key.

Wireless communication (offline), without a dedicated app, to configure operating settings and download data.

KEY READER

Made from PVC.

Self-cleaning slot: foreign bodies (earth, wood, etc.) are pushed out when the key is inserted.

BATTERY

Specifications: 12V 7 Ah. No servicing required.

Option: 90-260V mains power supply/charger.

PHOTOVOLTAIC MODULE

Power: 20 Wp - 12 V.

HYDRAULIC SET-UP

Equipment comprises: water inlet (40 mm), stopcock, solenoid valve, Hall-effect electromagnetic flowmeter. Filter.

Option: pressure relief device.

KEY

Plastic.

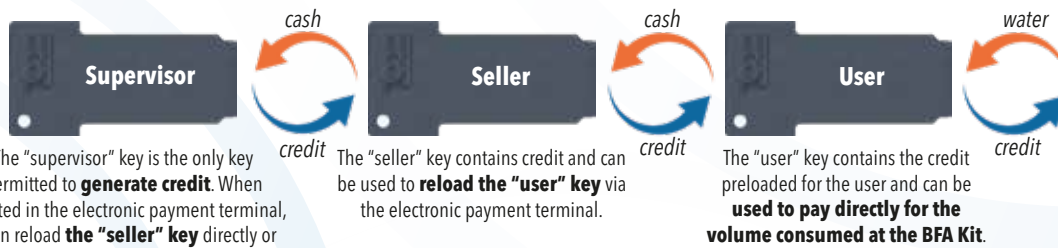
6 mm thick.

Can be submerged in water.

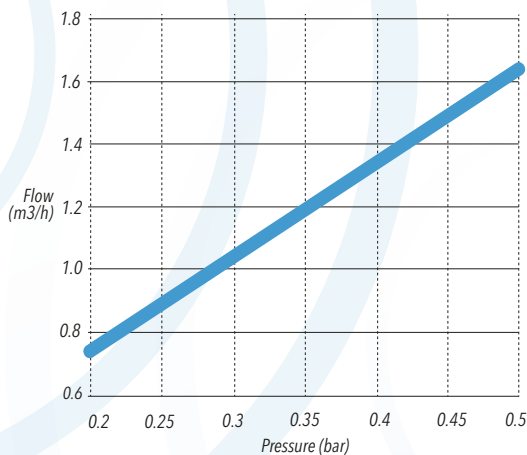
Contains the following information: network (or water authority or municipality) identification code, key serial number, standpipe identification, water quota and prepaid water quantity.

Information is encrypted.

A 100% SECURE PAYMENT SYSTEM: THE CREDIT CHAIN



FLOW RATE OF A STANDARD BFA KIT



PLEASE NOTE: Flow rate is largely dependent on the configuration of each site. This graph is therefore provided for information only. **VERGNET HYDRO cannot make any contractual commitment on the flow rate of the BFA Kits.**

Source: tests carried out by the VERGNET HYDRO design office, updated in May 2022.



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